

BALA, Z.

Repair of bearings.

P. 341. (PRZEGLAD KOLEJOWY MECHANICZNY) (Warszawa, Poland) Vol. 9, no. 11,
Nov. 1957

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

BALA, Z.

Screw connections in car repairs. p. 337.

PRZEGŁAD KOLEJOWY MECHANICZNY. (Państwowe Wydawnictwa Komunikacyjne)
Warszawa. Poland. Vol. 11, no. 11, Nov. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, No. 2,
Feb. 1959.

Uncla.

BALA, Zygmunt

Pressure welding of spring leaves. Przegl kolej mechan 11
[i.e. 16] no.68179-180 Je '64

1. Central Car Management, Warsaw.

BALA, Zygmunt

On the inspection of slide pins. Przegl kolej mechan 14
no.8:243-244 Ag '62.

1. Centralny Zarsad Wagonow, Warszawa.

BALA, Zygmunt

Pouring of bearing sleeves. Przegl kolej mechan 14 no.12:
378-380 D '62.

BALA, Zygmunt

Repair of bearing sleeves of railway cars. Przegl kolej mechan
10 [i.e.15] no.10:298-300 O '63.

1. Central Railway Car Administration, Warsaw.

BALA, Zygmunt.

Defects of car axles. Przegl kolej mechan 15 no.2:47-49
F '69.

1. Centralny Zarzad Wagonow, Warszawa.

BALA, Zygmunt

Maintenance of turn bearings on railway trucks. Przegl kolej
mechan 16 [i.e. 15] no.4:113-114 Ap '63.

1. Centralny Zarsad Wagonow, Warsaw.

BAIA, Zygmunt

Defects and causes of overheated bearings of NJ+NJP type cars. Przegl kolej mechan 15 no. 5: 148-149 My '63.

1. Centralny Zarzad Wagonow, Warszawa.

BALA, Zygmunt

Damages to heavy platforms. Przegl kolej mechan 16 [i.e. 15]
no. 71203-204 Jl '63.

1. Centralny Zarzad Wagonow, Warszawa.

BALA, Zygmunt

Buffers with rubber shock absorbers and their repair. Przegl
kolej mechan 11 [i.e.16] no.5:144-147 My '64.

1. Central Railway Car Administration, Warsaw.

BALA, Zygmunt

Leveling metal sheets of car sheathings during repair
of cars. Przegl kolej mechan 11 [i.e. 16] no.2:59-61
F '64.

1. Central Railway Car Administration, Warsaw.

BETA ZYKLOM

Increasing the fatigue resistance of railway car axles by surface hardening rolling. Irzegi kolej mechaniczny nr. 11:273-275. R. Rosi.

1. Central Car Administration, Ministry of Transportation, Warsaw.

BALA, Zygmunt

Damages of car tires. Przegl kolej mechan 11 no.12:301-303
D '64.

1. Central Railway, Car Administration of the Ministry of Transportation, Warsaw.

BALABA, T.Ya.

Effect of the functional state of the central nervous system on the activity of proteolytic enzymes of the gastrointestinal canal and liver in rats under conditions of dietary deficiency of protein. Voprosy Pitaniya 12, No.1, 23-7 '53. (MLRA 6:3)
(CA 47 no.14:7049 '53)

1. 2nd I.V. Stalin Med. Inst., Moscow.

SMIRNOVA, L.G. BAIABA, T.Ya.

[Practical studies in biochemistry for medical schools] Praktikum po
biokhimii dlja medvuzov. 2 izd., perer. i dop. Moskva, Medgiz, 1957.
270 p.
(BIOCHEMISTRY--STUDY AND TEACHING)

Ландау, Е.

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1957

Praktikum po Biokhimii Dlya Medvuzov
(Exercise in Biochemistry, By) T. Ya.
Landau (1 Dr.) Iod Red. L. G. Shirokoy.
2. Izd., perer. 1 Dop. Mo:kva,
Medgiz, 1957.
270 p. Illus., Diaprs., Tables.

AVS

KUSHKO, V.M., prof.; BALARA, T.Ya.

Effect of a tourniquet on the body. Uch.sap. 2-go MMKI 17:
5-19 '58.
(MIRA 13:?)

1. Zaveduyushchiy kafedroy biokhimii 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta imeni N.I. Pirogova (for Kushko).
(BLOOD--CIRCULATION, DISORDERS OF)
(MUSCLE--WOUNDS AND INJURIES)
(METABOLISM, DISORDERS OF)

BALABA, T.Ya.

Influence of the application and removal of a tourniquet on the
decomposition and synthesis of glycogen in the muscles. Uch., say.
2-go MGMI 17:65-77 '58. (MIRA 13:?)
(BLOOD--CIRCULATION, DISORDERS OF) (MUSCLE) (GLYCOGEN)

BALABA, T.Ya.

Respiration of muscles following application and removal of a
tourniquet with local chilling of the extremities. Uch.zap.
2-go MGMI 17:97-111 '58.

(MIRA 13:7)

(BLOOD--CIRCULATION, DISORDERS OF) (MUSCLE)
(COLD--PHYSIOLOGICAL EFFECT)

BALABA, T.Ya.; MALAKHOV, I.Ye.

Change in the respiration of muscles of denervated extremities
following the application and removal of a tourniquet. Uch.
zap. 2-go NGMI 17:131-142 '58. (MIRA 13:7)
(BLOOD--CIRCULATION, DISORDERS OF) (MUSCLE)
(RESPIRATION)

BALABA, T.Ya.; MALAKHOV, I.Ye.

Influence of a novocaine block on the respiration of muscles
following the application and removal of a tourniquet. Uch.
zap. 2-go NIGNI 17:149-157 '58. (MIRA 13:7)
(BLOOD--CIRCULATION, DISORDERS OF) (NOVOCAINE)
(MUSCLE)

HALABA, T.Ya. (Moskva)

Effect of momentary release of a tourniquet on oxidative processes in the muscle. Eksp.khir. 4 no.3:48 My-Je '59.
(MIRA 12:8)

(MUSCLES, blood supply

hemostasis, eff. of momentary tourniquet release on oxidative processes in rabbits (Rus))

BALABA, T. Ya., Doc Med Sci -- (diss) "Action of a hemostatic tourniquet on the tissue respiration and some ferments in the muscular tissue of extremities." Moscow, 1960. 26 pp; (Second Moscow State Medical Inst im N. I. Pirogov); 300 copies; free; list of author's work at end of text (12 entries); (KL, 21-60, 129)

BALABA, T.Ya.

Role of the neurogenic factor in disturbances of the phospho-
rylytic splitting of polysaccharides in the muscles in experi-
mental ischemia. Vrach.delo no.1:41-43 '60. (MIRA 13:6)

1. Kafedra biokhimii (sav. kafedroy - prof. V.M. Kushko) Vtorogo
Moskovskogo meditsinskogo instituta.
(PHOSPHORYLATION) (NERVOUS SYSTEM)

BALABA, T.Ya.

Problem of changes in tissue (muscle) respiration after placement
and removal of a blood-arresting tourniquet. Ekspen. khir. 5 no.1:
42-46 Ja-F '60. (MIRA 13:12)

(MUSCLES)

(RESPIRATION)

BALABA, T.Ya.

Effect of drug-induced sleep on the respiration of muscle tissue after
the application and removal of a hemostatic tourniquet. Eksper. khir.
5 no. 2:60-61 Mr-Ap '60. (MIRA 14:1)
(SLEEP) (MUSCLES) (RESPIRATION)

BALABA, T.Ya.

Hydrolytic splitting of polysaccharides in muscles following the application and removal of a tourniquet. Ukr.biokhim.zhur. 32 no.2: 271-282 '60. (MIRA 13:11)

1. Department of Biochemistry of the Second Moscow N.I.Pirogov Medical Institute.
(POLYSACCHARIDES)
(BLOOD--COAGULATION)

BALABA, T.Ya.

Effect of sodium amytal on the phosphorylase activity of muscle tissue in local ischemia. Biul. etsp.biol.i med. 50 no.9:85-89
8 '60. (MIR. 13:11.)

1. Is kafedry biokhimii (zav. - prof. V.I.Dobrynina) farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (dir. - prof. V.V.Kovanov).
(AMOBARBITAL) (MUSCLES) (PHOSPHORYLASE)
(BLOOD--CIRCULATION)

BALABA, T.Ya., doktor med. nauk (Moskva B-64, Basmannyy turgik, d.6-a, kv.26);
PANCHENKO, L.F.

Changes in muscle respiration under the application of a
pneumatic tourniquet. Ortop. travm. i protez. 24 no.5:
61-63 My '63. (MIRA 17:9)

1. Iz laboratorii biokhimii TSentral'nogo instituta travmatologii
i ortopedii (dir.- prof. M.V. Volkov) i kafedry biokhimii II
Moskovskogo meditsinskogo instituta.

BALABA, T.Ya.; STEYMATSKIY, A.R.

Role of the sialic acid test in the diagnosis of rheumatism in
mental patients. Zhur. nevr. i psikh. vol. 64 no.5:755-759 '64.
(MIRA 17:7)
1. Laboratoriya biokhimii (zaveduyushchiy - prof.V.I.Dobrynina)
Instituta psichiatrii AMN SSSR, Moskva.

BALABA, T.Ya. (Moskva B-64, Basmannyy tupik, d.6-a, kv.26); PETROVA, A.S.;
GRUSHETSKAYA, O.Ye.; FRIDBERG, S.N.

Functional state of the blood coagulation system in patients with
injuries to the locomotor apparatus. Ortop., travm. i protez. 25
no.6:56-57 Je '64. (MIRA 18:3)

1. Is TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-
korrespondent AMN SSSR prof. M.V. Volkov).

BALABA, T.Ya. (Moskva B-64, Basmannyy tupik, d.6a, kv.26); MALAKHOV, I.Ye.

Abstracts. Ortop., travm. i protez. 26 no.3:71-72 Mr '65.

(MIRA 18:7)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. -
chlen-korrespondent AMN SSSR prof. M.V.Volkov) i kafedry bico-
khimii II Moskovskogo meditsinskogo instituta (rektor - prof.
M.G.Sirotkina).

VOLKOV, M.V., prof.; BAJARA, T.Ya., doktor med. nauk; MEL'NIKOVA, V.M.,
kand. med. nauk; SREPELEVA, I.S., kand. med. nauk

Modern achievements of chemistry in the practice of traumatology and orthopedia; results of the work of the Central Institute of Traumatology and Orthopaedia. Ortop., travm. i protez. 26 no.8:3-10 Ag '65. (MIRA 18:9)

1. Chlen-korrespondent AMN SSSR (for Volkov).

HALABA, T.Ya., doktor med. nauk; MERKUR'IEVA, R.V., kand. biol. nauk;
MIXHEL'MAN, M.D., doktor med. nauk; MIKHAYLOVA, N.M., kand. med.
nauk

Biochemical study of the protein-carbohydrate complexes of the
blood serum in patients with arthrosis deformans of the hip joint;
preliminary report. Ortop., travm. i protes. 26 no. 10:3-9
O '65. (MIRA 18:12)

1. Is TSentral'nogo instituta travmatologii i ortopedii (dir. -
chlen-korrespondent AMN SSSR prof. M.V.Wolkov). Adress
avtorov: Moskva A-299, ul. priorova d. 10 TSentral'nyy institut
travmatologii i ortopedii. Submitted May 23, 1964.

BALABACHAN, Ya.I., prof.; SHIRIAYEV, G.A., inzh.

Sectional supports made of "armotsment." Shakht.stroi. no.3:
23-25 Mr '59. (MIRA 12:4)
(Reinforced concrete construction) (Mine timbering)

BALABAN, A. MOZDRACHEV, N.

Organize sections of labor and wages in building trusts. Sots.
trud no. 5; 130-131 Ny '57. (MLRA 10:6}

1. Nauchnyy sotrudnik Yushnogo nauchno-issledovatel'skogo in-
stituta po stroitel'stvu (for Balaban). 2. Inzhener po trudu i
zarabotnoy plate tresta "Voroshilovskstroy" (for Mozdrachev).
(Building) (Wages)

BALABAN, A.; DZHIOTEV, I.

Inside loss of working time in the construction industry.
Sots.trud no.3:61-63 Mr '58, (MIRA 13:3)
(Ukraine--Construction industry--Wages)

SHIRIN, P.K. (Moskva); POVERENNYY, L.D. (Moskva); KAMENOV, N.O. (Moskva);
BARCH, I.Z., insh. (Khar'kov); PUSHKAREV, V.V. (Novosibirsk);
BALABAN, A.I. (Khar'kov); DZHIOEV, I.M. (Khar'kov); RUBINSHTAIN,
N.Z. (Khar'kov); RYABCHICH, V.P. (Magnitogorsk); SOLOVAROV, K.N.,
(Kasan'); KHODOROVSKAYA, O.R. (Khar'kov); MAMDOV, Ye.N. (Leningrad).

Discussion on plans and regulations for the organization and the
technology of building. Stroi. prom. 35 no.12;5-20 D '57.
(Architecture--Designs and plans) (MIRA 11:1)
(Construction industry)

ISMLH#547N/A

COUNTRY	:	RUMANIA
CATEGORY	:	
ABS. JCUR.	:	RZhChim., No. 20 1959, No. 71511
AUTHOR	:	Balaban A.; Frangopol, P.
INST.	:	Not given
TITLE	:	Preparation of 2,5-diphenyloxazole (Organic Scintillator in Solution)
ORIG. PUB.	:	Studii si cercetari chim. Acad RPR, 1958, 6, #3, 427-432.
ABSTRACT	:	The effects of various quantities of SOCl_2 on the formation of 2,5-diphenyloxazole (I) were studied. I was prepared from $\text{C}_6\text{H}_5\text{CHO}$, $\text{C}_6\text{H}_5\text{CH}(\text{OH})\text{CN}$ and gaseous HCl in ether (Ingham D. H., J. Chem. Soc., 1927, 692). The highest yield of I (31%) was obtained when 0.5 mole of SOCl_2 was used per 1 mole of $\text{C}_6\text{H}_5\text{CHO}$ and 1 mole $\text{C}_6\text{H}_5\text{CH}(\text{OH})\text{CN}$, and HCl was passed through the mixture for 2-3 hours.

-- S. Zavyalov

CARD: 1/1

30

Distr: 4E3d

Mechanism of the hydride transfer in the Scholl reaction. Costin D. Neaguescu and Alexander Balaban (Tech. University, Bucharest, Romania). *J. Am. Chem. Soc.*, 91, 2100-16 (1969). Slight heating of $\text{C}_6\text{H}_5\text{CH}_2\text{OBu}$ (I) with anhyd. PhNO_2 (II) in PhNO_2 yields $\text{C}_6\text{H}_5\text{COCH}_2\text{OBu}$ (III) and $\text{PhNH}_2\text{O}_2\text{S}(\text{P})_2$ (IV). IV was also obtained from PhNH_2OH and II in nonpolar solvents, indicating that PhNH_2OH is the primary reduction product from PhNO_2 in the reaction of I with II in PhNO_2 . The hydride transfer from the dihydroaromatic intermediate formed in the Scholl reaction to the PhNO_2 (acting as acceptor) is catalyzed by II. The catalytic effect of II on the hydride transfer was demonstrated on the model system 9,10-dihydroanthracene (V) which with II in PhNO_2 yielded anthracene and IV; no hydride transfer occurred in the absence of II. The mechanism of the Scholl reaction is discussed. I (6 g.) in 82 g. PhNO_2 and 9.8 g. II heated 14 hrs. at 75°, cooled, and filtered gave 1.2 g. III, m. 113°; the filtrate steam-distilled, and the resinous residue (about 3 g.) crystd. from $\text{C}_6\text{H}_6\text{-EtOH}$ yielded an addnl. 1.0 g. III; the aq. steam distn. residue basified with NaOH gave 0.9 g. IV, needles, m. 101°. *N*-Ac deriv. of IV, m. 121° (aq. KtOEt or Colliepetti, ether); *N*- PAsO_3^2- deriv. of IV, m. 128° (C_6H_6 -ligroine or aq. Ba(OH)_2); coupling product with 2- $\text{C}_6\text{H}_5\text{OH}$, red needles, m. 157° (Ba(OH)_2).

Crystals of IV, yellow plates, m. 173-4° (MeOH); 2- $\text{C}_6\text{H}_5\text{OBu}$ heated 20 hrs. at 80°, (1- $\text{C}_6\text{H}_5\text{I}$) heated 4 hrs. at 100°, and 3- $\text{C}_6\text{H}_5\text{OBu}$ heated 2 hrs. at 180° with II in PhNO_2 gave in all cases IV from the aq. phase, but only resinous products from the PhNO_2 soln. II (14 g.) in cold dry Et_2O treated dropwise with 10 g. PhNH_2OH in Et_2O deposited $\text{PhNH}_2\text{O}_2\text{S}(\text{P})_2$, needles, decomps. about 70°; a sample heated in a test tube on the H_2O bath underwent violent decomps. and formed tarry products. II (20 g.) in 1 l. C_6H_6 heated to boiling, treated dropwise with 7 g. PhNH_2OH in 200 cc. C_6H_6 , heated 10 min., and cooled deposited 19 g. II salt of IV, m. 203-4°, which with alkali gave IV, m. 101°; picrate m. 173°. A similar run with the reverse addn. of the reactants gave the PhNH_2 II salt and from the soln. $\text{PhN}_2\text{N}(\text{O})\text{P}(\text{O})(\text{OEt})_2$ V (5 g.) and II in 50 cc. dry PhNO_2 heated 40 hrs. at 100° and cooled deposited 3 g. anthracene (1.1 g. 2nd crop, obtained by steam distn.); the aq. distn. residue treated with NaOH gave 1.3 g. IV, m. 101°. A similar run proceeded in the same manner during 1 month at 20°; V in PhNO_2 heated for a longer period of time at 100° without II gave only unchanged V; a similar run at 200° during 18 hrs. gave anthracene and small amts. of PhNH_2 and H_2O_2 . V in C_6H_6 refluxed with II gave only unreacted V. W. Hoffmann

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BALABAN, A. I.

Possible formation of tetraphenylcyclobutadiene. After Andre T. Balaban (Polymer Inst., Montreal, Quebec) and C.R. Addieall (Ottawa, Ontario) in the presence of AlCl₃ (Ancony and Kharasch, C.A. 59, 10078) gave, in addition to the 1:1 adduct, 1,2,3-triphenylbenzene and tetravalent units of an unidentified colorless hydrocarbon (II), C₄₄H₃₂, m.p. 164-5°, not identical with 1,2,3-triphenylnaphthalene. Consideration of a possible mechanism suggested that II may be tetraphenylcyclobutadiene, possibly a stable compd; since cyclobutadiene has a half-life of about 1 min. and tetramethylcyclobutadiene dimerizes to a unitary product (Criegee and Louis, C.A. 51, 18779). The postulated identity might be tested by showing the equivalence of the 4 Ph groups in the nuclear (proton) magnetic resonance spectrum. C. R. Addieall

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29/6/81
12/2/81
4E3d

DIAZABAN, HICK AND YU

Distr: 4E3d

5
Aluminum chloride catalysis. XXVI. The reaction of alkanes with carbon monoxide. Alexandru Te. Balaban and Costin D. Nemțescu (Tech. Hochschule, Bucharest, Romania). Ann. 625, 66-73 (1989); cf. CA 53, 100794.—A rotating 2.8-l. autoclave contg. 0.8 mole AlCl₃, 20.8 moles propane, and 160 atm. CO was heated to 70°, addnl. CO added at 80 atm., when the pressure remained const. The contents poured on ice and 50 cc. concd. HCl, and the 348 g. org. material distd. after treating with 10% NaOH and MgSO₄ to give 16 g. iso-PrCOMe, 170 g. iso-PrCOBu-₂, and 50 g. isobutyric acid. A 0.6-l. autoclave contg. 200 g. heptane, 50 g. Me₂COH (I), 140 atm. CO, and 65 g. AlCl₃ (isolated before mixing) was shaken 8 hrs. at room temp. (96 moles CO absorbed) and the contents treated with ice and 10% NaOH to give a 78-95% fraction (14%) contg. iso-PrCOMe. The same reaction was carried out in an open vessel at -15° 9 hrs. to yield 2% product. A 0.6-l. stainless steel autoclave contg. a glass tube with 1 mole FeCl₃ and 1.26 mole *tert*-BuCl was filled with 160 atm. CO, avoiding CO contact with the tube contents before mixing. After 2 hrs. shaking 0.8 mole CO was absorbed. Ice, ether, and 1.5% Na₂CO₃ treatment gave 7% I and 21% isobutetyl *tert*-Bu ketone (II). With AlCl₃ instead of FeCl₃ 6-12% I, 12-20% II, and 0-4% 2,6-di-*tert*-butyl-4-methylpyrlyium chlorodiaminate were obtained. XXVII. Synthesis of pyrlyium salts from acid chlorides and olefins. IM. 74-88.—Acid chlorides reacted with branched olefins or alkyl chlorides in the presence of AlCl₃, SnCl₄, or FeCl₃ to form allyl substituted pyrlyium AlCl₄⁻, SnCl₄⁻, or FeCl₄⁻ salts. These were converted to CHO₂⁻, PtCl₆⁻, and BF₄⁻ salts readily. They formed phenols and pyridine oxides with NaOH and NH₄OH, resp. Without solvent, reactant ratios of 2 moles RCOCl, 1 mole AlCl₃, and 1 mole olefin or *tert*-alkyl halide were used and with RCOR, 1 mole RCOCl and 1 mole RCOCl. AlCl₃ was added to a stirred 0-10° RCOCl soln. (with PhCOCl at 15-20°), after adding

the 3rd component the mixt. stirred 3-4 hrs. at room temp., treated with ice after 24 hrs., starting materials removed, the aq. soln. salted to give the AlCl₄⁻ salt. Treatment of the mother liquor with HClO₄, HBF₄, H₂PtCl₆, or picric acid gave the resp. salts. The highly aromatic salts hydrolyzed to pseudo bases and were crystd. from ether. With MeNO₂ solvent, 400 cc./mole AlCl₃ was used as above at 10°. In C₆H₆ solvent, aliphatic RCOCl complexes layered out under the C₆H₆ and this layer was treated with ice. To 2 moles RCOCl and 1 mole SnCl₄ was added the 3rd component at 20-5°. Treatment with ice gave a salt which was washed with H₂O and ether. The pyrlyium salt (I) was treated with aq. NH₃ extd. with ether, dried with NaOH and distd. to give the pyridinium N-oxide picrate, recrystd. from MeOH. A cold soln. of 1 mole NH₂NHCONH₂HCl, II, and NaOH was stirred and treated with 1 mole warmed 50% aq. soln. of picric acid to give the N-ureidopyridinium picrate. A 1 mole aq. soln. of II, glycine, and picric acid was warmed to 80° to give the resp. N-carboxymethyl-

pyridinium picrate. A:CR¹:CR²:CH:CR³ (III) were prep'd. [R¹, R², R³, m.p. of III (A = O), b.p. and m.p. of III (R = N), and m.p. of pyridinium chloroplatinate given]: Me, H, Me, Me, 245-6°, 168°, 160-7°, 231°; Me, H, Me, Et, 198°, 181°, 112-13°, 213°; Me, H, Et, Me, 180-90°, 185-6°, 119-20°, 213°; Et, H, Me, Et, 189°, 195°, 130°, 216°; Me, H, iso-Pr, Me, 133°, 197°, 94°, 212°; Et, H, Et, Et, 109-10°, 218°, 136°, 206°; Pr, H, Me, Pr, —(liquid), 225°, 91°, 195°; iso-Pr, H, Me, iso-Pr, 173°, 210°, 171°; Me, H, Me, Ph, 194-5°, 206°, 180-7°, 104°; Me, H, Ph, Me, 215-16°, —, 223°; —, Bu.

H, Me, Bu, — (Benzid), 30°, 111°, 185°; iso-Bu, H, Me,
iso-Bu, 100°, 245°, 70-1°, 211°; tert-Bu, H, Me, tert-Bu,
200°, 226°, 140°, 212°; Et, H, Ph, Et, 177-8°, —, 199°,
212°; Ph, H, Me, Ph, 270°, —, 182°, —; Ph, H, Et, Ph,
230°, —, 178-9°, —; Me, Ph, Ph, Me, 220-1°, —, 173-3°,
—; Ph, H, Ph, Ph, 281°, —, —; Ph, Ph, Ph, Ph, 260°,

—, —, —. The following RN:CR:CH:CR':CH:CR'
esters were prepd. (R¹, R², R⁴, and m.p. where R = OH,
NHCONH₂, and CH₃CO₂H given): Me, Me, Me, 170°,
180°, 161°; Me, Et, Me, 120°, 177°, 148°; Et, Me, Et,
120-7°, —, —; Et, Et, Et, 120°, —, —. Irving Anschutz

Distr: 4E3d/4E2c(j)

✓ Attempt at systematization of monocyclic aromatic compounds. / Alexandra T. Balaban. Atas. rep. populare Române, Starea cercetări chim., 7, 267-92 (1959) (English summary 292-6).—The atoms which may form an aromatic ring are classified according to the number of π electrons contributed by each to the π cloud as: X (contributes two π electrons), Y (contributes one), Z (contributes none). Let x, y, and s be the no. of atoms X, Y, and Z, resp., in a ring of m atoms. All the possible forms of a cyclic compd. which satisfies the Hückel rule appear as solns. of the set of two equations with three unknowns $x + y + s = m$, and $2x + y = 4s + 2$, as the parameters m and s are systematically varied. The system is shown to relate a large no. of known aromatic structures, to explain many reactions, and to predict new aromatic compounds. R. A. Sanford

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1-JAJ(VK)
2

Distr: 4E2c(j)/4E3d

/ The decarbonylation of 1,4-dihydro-1-naphthoylchloride and its implications in the mechanism of the Scholl and Gattermann-Koch reactions. Alexandru T. Balaban and C. D. Neauțeanu (Org. chem. lab., Politehn. Inst., Bucharest, Romania). Acad. rep. populară România, Sfârșit cercetări chim. 7, 221-9 (1959).—1,4-Dihydro-1-naphthole acid (prepd. from 1-naphthole acid and 1% Na-Hg) and its derivs., the chloride (the acid with excess SOCl_2), the amide (C_6H_5 soln. of the chloride and NH_3 gas), the anilide (the chloride and aniline in abs. ether), and the nitrile (the amide and PCl_3), were prepd. Treatment of the chloride with AlCl_3 in CS_2 caused its decompr. into HCl , CO_2 , and naphthalene, with formation of 2,3'-binaphthyl; the latter was formed in larger量 (together with higher mole. wt. polymers) if naphthalene was present from the start. If the CS_2 was replaced by anisole or toluene, Friedel-Crafts reactions occurred with these solvents to yield a mixt. of α - and β -anisyl 1,4-dihydro-1-naphthyl ketone and a mixt. of α - and β -tolyl 1,4-dihydro-1-naphthyl ketone. This confirmed the mechanism previously proposed for the Scholl reaction and had a bearing on the mechanism of the Gatterman-Koch reaction. (82 references) (Summaries in Russian and English). M. Lapidot

4
1-BW(BW)
2-JoJ(NB)(may)
2

NARTAKIGYM BucikaeL MUMUIANU, Dana; MAGDA, Margareta; BALABAN, Alexandru T.

Mass-spectrum analysis of ring-deuterized pentamethylbenzenes. Studii
cerc chim 8 no.2:329-338 '60. (ERAI 10:2)

1. Institutul de fizica atomica al Academie R.P.R., Bucuresti.
(Pentamethylbenzene) (Deuterium) (Ring compounds)
(Mass spectrometry)

Distr: bE3d

✓ Ammonium chloride catalyses. XXVIII. Reaction of cycloalkanes with carbon monoxide. A. T. Balan and C. D. Scutaru [Polytech. Inst. Bucharest, Romania]

product contg. 6 g. VII. IV (7.8 moles) and 0.1 moles
LiCl, autoclaved 10 hrs. with CO at 20°/150 atm. and the
whole product distilled gave a 1st fraction 275 g. (60%)
which was then redistilled to give 121 g. (70%)

BALABAN, A.T.; NEITSESKU, E.D.

Ultraviolet absorption spectrum of pyrylium chlorate. Izv.
AN SSSR. Otd. khim. nauk no.11:2064-2065 N '60. (MIRA 13:11)

1. Politekhnicheskiy institut i Institut atomnoy fiziki, Bukharest.
(Pyrylium compounds--Spectra)

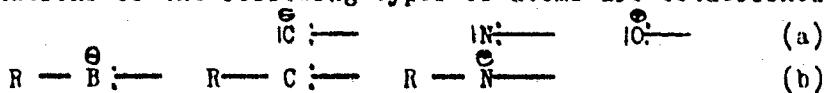
S.2640

87174
S/062/60/000/012/020/020
B013/B054AUTHOR: Balaban, A. T.

TITLE: Systematization of Triple Bond Types

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1960, No. 12, pp. 2260-2261

TEXT: The author suggests the systematization of molecules with triple bonds. For all known and some unknown molecules with triple bonds, combinations of the following types of atoms are established:



(dots denote π -electrons, vertical lines p-electrons, horizontal lines δ -electrons (see also Refs. 3 and 4)). Only molecules and ions formed by the combination of atom types (a) have an electron configuration of the closed layer. The triple bond in these compounds is distinguished by high stability. Molecules and ions with (b)-type atoms have no p-orbits, and

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Systematization of Triple Bond Types

87174
S/062/60/000/012/020/020
B013/B054

are much less stable than the former. On the basis of these statements, the author assumes: 1) that the extraordinary acidity of acetylene and hydrocyanic acid is not only due to an increasing participation of s-orbits in mixed atoms, or to the polarization of atoms (Ref. 5), but mainly to the fact that ions with nitrogen-like electron configuration are formed by ionization; 2) that the formation of acetylene and hydrocyanic acid is not only due to their heat absorptivity but to the formation of the same ions in the gaseous phase. This latter statement might be checked by analyzing the mass spectra of gases formed in the production of HCN by Andrusov's method, or of C_2H_2 during methane cracking. Among the unknown molecules with a triple bond predicted on the basis of the systematization suggested, molecules with a boron content should be of special interest. The triple bond of molecules whose atoms much differ by their electronegative behavior is also unstable. The author thanks V. N. Kondrat'yev and M. I. Vinnik for valuable remarks. There are 9 references: 1 Soviet, 5 US, 1 British, 1 German, and 1 Rumanian.

Card 2/3

Systematization of Triple Bond Types

87174

S/062/60/000/012/020/020
B013/B054

ASSOCIATION: Institut Atomnoy fiziki, Bukharest (Institute of Atomic Physics, Bucharest)

SUBMITTED: June 20, 1960

Card 3/3

BALABAN, Aleksandru T.; GENYA, Anisiya [Genea, A.]; NENITSESKU, Kostin, D.
[Nenitzescu, C.D.]

Preparation of pyrylium salts by bis-acylation of olefins. Report 5:
Bis-acylation of di- and triisobutylene. Izv.AN SSSR, Otd.khim.nauk
no.6:1102-1107 Je '61. (MIRA 14:6)

1. Politekhnicheskiy institut, Bukharest.
(Propene) (Acylation)

BALABAN, A.T.; NEVITZESCU, C. D.

Investigations in the class of pyrylium salts. Rev chimie
6 no.2:269-294 '61.

1. Membre du Comité de rédaction et rédacteur en chef, "Revue
de chimie" (for Menitescu)

BALABA", A. T.; MATEESCU G. D.; NENITZESCU, C. D. [Nenitescu, C. D.]

Pyrylium salts obtained by diacylation of olefins. Pt. VI.
Acetylation of benzyl ketones. Rev chimie 6 no.2:295-302 '61.

1. Laboratory of Organic Chemistry, Polytechnical Institute,
Bucharest 2. Membre du Comité de rédaction et rédacteur en chef,
"Revue de chimie" (for Nenitescu)

BALABAN, A. T.; NENITESCU, C. D., acad.

Studies in the class of pyrylium salts. Studii cerc chim 9 no.2:
251-274 '61.

1. Laboratorul de chimie organica, Institutul Politehnic; Institutul
de fizica atomica al Academiei R.P.R., Bucuresti. 2. Comitetul de
redactie, redactor responsabil, "Studii si cercetari de chimie"
(for Nenitescu).

(Salts) (Pyrylium compounds)

SHUYKIN, N.I.; BEL'SKIY, I.F.; BALABAN, A.T.; NENITSESKU, K.D.

Catalytic transformation of homologs of 2-acetylfuran to
trialkyltetrahydropyrans. Izv.AN SSSR.Otd.khim.nauk no.3:
491-493 Mr '62. (MIRA 15:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR i
Akademiya Rumynskoy Narodnoy respubliki.
(Furan) (Pyran)

BALABAN, A. T.; MATEESCU, G.; NENITESCU, C. D., acad.

Pyrylium salts obtained through olefin bisacylation. Pt. 6. Acetylation of benzyl ketones. Studii cerc chim 9 no.1:211-218 '61.
(EEAI 10:9)

1. Laboratorul de chimie organica, Institutul Politehnic, Bucuresti.
2. Comitetul de redactie, STUDII SI CERCETARI DE CHIMIE, redactor responsabil (for Nenitescu).

(Pyrylium compounds) (Diphenylpropanone)
(Acetylation)

SIMON, Z.; BALABAN, A.T.

Simple Huckel M.O. treatment of electronic spectra
of some aromatic heterocyclic compounds with five
atom cycle. Studii cerc chim 11 no.1:53-60 '63.

1. Institutul de fizica atomica si sectia de chimie fizica
a Centrului de cercetari chimice al Academiei R.P.R.
2. Membru corespondent al Academiei R.P.R. (for Balaban).

BALABAN, A.T.

Magic numbers of electrons and nucleons. Rev chimie Min petr 14
no.3:158-160 Mr '63.

EALABAN, A.T.

Preparation of boron Fluoride. Rev chimie Min petr 14 no.10:
603 0'63.

1./ Institutul de fizica atomica al Academiei R.P.R.

SIMON, Z.; BALABAN, A. T.

Relative stability of isomeric aromatic monocyclic systems appreciated by M. O. methods. Rev chimie 7 no.1: 555-560 '62.

1. Institute for Atomic Physics and Chemical Centre of the Academy of the R.P.R., Bucharest.

BALABAN, A.T.; BARABAS, E.; MANTESCU, C.

A product obtained from benzoin and beryllium chloride. Rev
chimie 8 no.1:139-148 '63.

1. Institute for Atomic Physics of the Academy of the R.P.R.,
Bucharest. 2. Corresponding Member of the Academy of the R.P.R.
(for Balaban).

BALABAN, A. T.; GAVAT, Maria; FRANGOPOL, P. T.; MOCANU, Maria; NENITZESCU, C. D.
[Nenitescu, C. D.]

Pyrylium salts obtained by diacylation of olefins. Pt. 13.
Rev chimie Roum 9 no.1:79-92 Ja '64

1. Institute for Atomic Physics (P.O.Box 35) and Institute of
Organic Chemistry of the Romanian Academy, Bucharest.

BALABAN, A. T.; GAVAT, Maria; FRANGOPOL, P. T.; MOCANU, Maria
NENITESCU, C. D.

Pyrilium salts obtained by olefin diacylation. Pt. 1³.
Studii cerc chim 12 no. 1: 71-85 Ja '64.

1. Institute of Atomic Physics and the Center of Organic Chemistry of the Rumanian Academy, Bucharest.

BALABAN, A.

Strengthen the quality control of manufactured machines. Muk.-elev.
prom. 30 no.1:28 Ja '64. (MIRA 17:3)

1. Direktor Givanskogo khlebopriyemnogo punkta Vinnitskoy oblasti.

BALABAN, A.T.; SIMON, Z.

Aromaticity. Rev chimie Roum 9 no.2:99-104 F '64

1. Institute of Atomic Physics and Institute of Physical Chemistry of the Romanian Academy, P.O. Box 35, Bucharest.

FARCASIU, D.; FARCASIU, M.; BALABAN, A.T.

Pyrlyium salts obtained by diaoylation of olefins. Rev. chimie
Roum 9 no.28137-145 P '64

1. Institute of Organic Chemistry and Institute for Atomic
Physics of the Rumanian Academy, P.O.Box 35, Bucharest.

FARCASIU, D.; BALABAN, A.T.; GUTMANN, M.

On the acetylation of 4-chloro-3,4-dimethylpentane-2-one with acetyl chloride-1-¹⁴C. Rev chimie Roum 9 no.11:727-741 N '64.

1. Polytechnic Institute, Bucharest, 1 Polizu Street (for Farcasiu, Gutmann). 2. Institute of Atomic Physics, Bucharest, P.O.Box 35 (for Balacan).

SIMON, Z.; BALABAN, A.T.

Levels of energy for salts of pyrylium with phenyl groups substituted in para. Studii cerc chim 12 no.5:345-355 '64

1. Institute of Chemistry and Physics, Dumbrava Rosie St. no.23,
and Institute of Nuclear Physics, P.O. Box, 35, Bucharest.

BALABAN, B.V., inzh.; BYALKOVSKIY, V.I., inzh.; SHURIN, V.M., inzh.

An 110/35/10 kv. electric substation with operative a.c. Elek.
sta. 32 no.2:77-79 F '61. (MIRA 16:7)
(Electric substations)

BALABAN, B.V., insh.; VABEL', V.D., insh.; ZEMLYANKER, L.Kh., insh.;
KLEYNER, O.R., insh.

Automatic control in municipal electric power distribution
networks. Elek. sta. 34 no.7:54-59 Jl '63. (MIRA 16:8)

GAVRILA, I., prof.; MURESIANU, T., dr.; SOLOVIEV, M., dr.; SUCIU, O., dr.;
BALABAN, C.

The clinical aspect of *Salmonella typhimurium* infections. Med. intern.
14 no.6:653-658 Je '62.

1. Lucrare efectuata in Clinica de boli contagioase, I.M.F., Cluj.
(*SALMONELLA INFECTIONS*) (*SALMONELLA TYPHIMURIUM*)

USSR/Cultivated Plants - Grains.

M.

Abs Jour : Ref Zhur - Biol., No 10, 1953, 44049

Author : Balaban, F. N.

Inst : -

Title : Corn on the Utilized Fallow Land in the South of the Moscow Region.

Orig Pub : Zemledeliye, 1957, No 5, 45-48.

Abstract : The studies of the Moscow selection station show that the sowing of winter grains on the corn fallow produces as great a yield as the sowing on vetch-oats fallow. Better varieties are recommended as well as a number of agrotechnical suggestions (the time and method of sowing care and harvesting) for cultivating corn on occupied fallow land.
-- V.A. Vnuchkova

Card 1/1

- 30 -

BALABAN, F.N.

~~Effectiveness of organomineral fertilizers. Zemledelie 6 no.8:37-39
Ag '58.~~
(Fertilizers and manures)

BALABAN, GH.

Balaban, GH. Masini de curent continuu. Editura Confederatiei Generale a Muncii, 1951. 99 p. (Colectia tehnica, 43) Machines operating on continuous current. Illus.⁷

SO: Monthly Lists of East European Accessions, LC, Vol. 3, No.1, Jan. 1954, Uncl.

LUCA, P., dr.; BALABAN, Gh., conf.; GEORGESCU, L., conf.; MEILA, I. dr.; BOLOVEDEA, M. dr.; BRABORESCU, Elisabeta, dr.; LUFT. E. n.m.

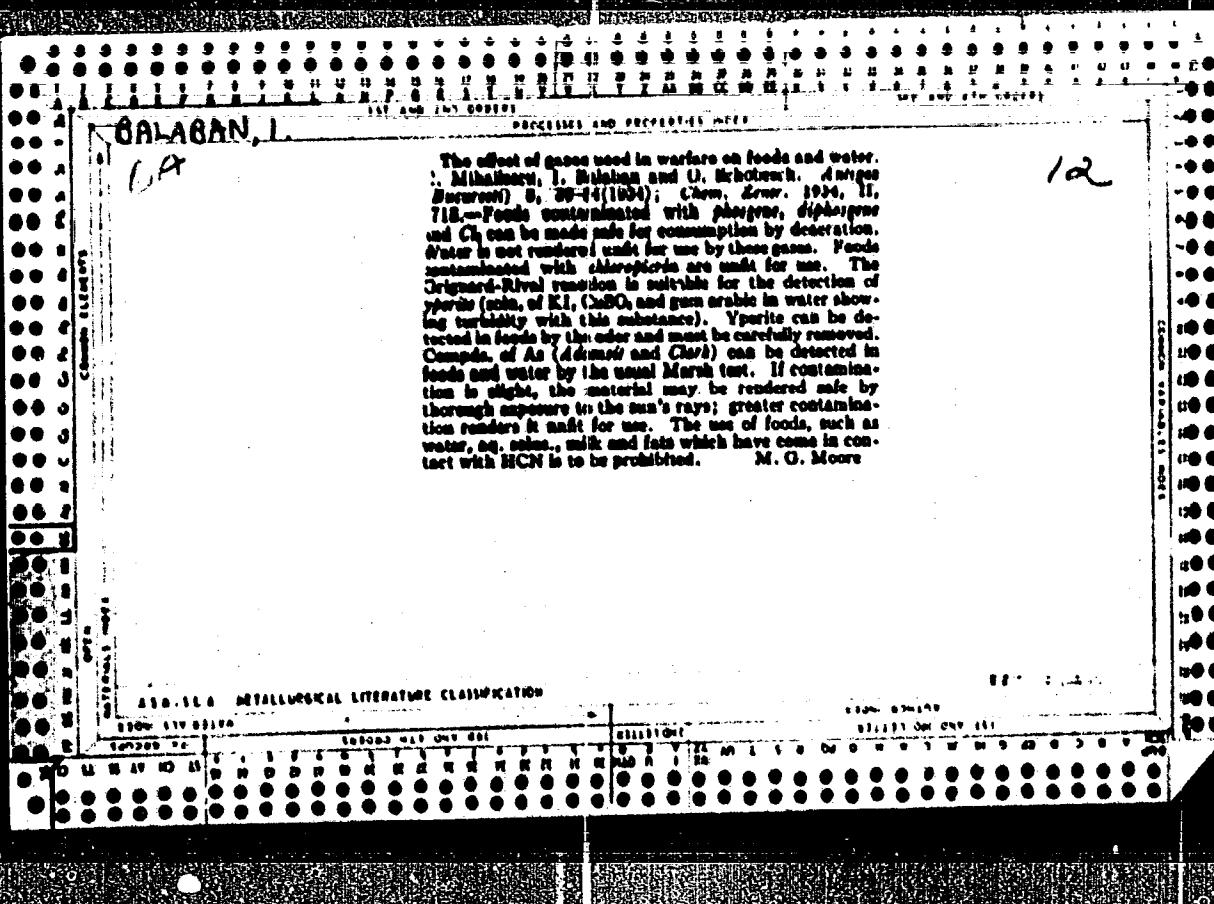
Association of Recklinghausen's neurofibromatosis with pheochromocytoma; adrenalectomy. Med. intern. (Bucur.) 10 no.5: 625-628 My'64

1. Lucrare efectuata in Sectia de cardiologie si Sectia de chirurgie, S.M.S., Resita.

MISHKIN, Yu.I.; FINKEL'SHTEYN, A.I.; BALABANOV, G.P.; TEPLOVA, Z.G.

Infrared and ultraviolet spectra of some derivatives of terephthalic acid. Zhur.ob.khim. 33 no.10:3249-3252 O '63.
(MIRA 16:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy
institut azotnoy promyshlennosti i produktov organicheskogo
sintezza.



NICOLAU, I.; BURLUI, A.; BOIU, M.; MANESCU, M.; GANE, R.; BALARAN, I.;
BUCSA, V.; CONSTANTINESCU, N.

Contribution to the study of cardiac-pulmonary hemosiderosis in
children. Probl. ter., Bucur. 10 no.3:25-34 '59.

1. Membru corespondent al Academiei R.P.R. (for Nicolau).
(HEMOSIDEROSIS, in inf. & childh.)
(HEART DISEASE, in inf. & childh.)
(LUNG DISEASES, in inf. & childh.)

RUSESCU, A., prof.; POPESCU, V., dr.; BALABAN, I., dr.

Multiple myeloma (Rustitki-Kahler disease) in children. Med. intern.,
Bucur 12 no.12:1893-1900 D '60.
(MYELOMA PLASMA CELL in inf. & child.)

RUSESCU, A., prof.; BALAN, Angela, dr.; BALABAN, I., dr.

Considerations on 7 cases of Cooley's anemia. Med. intern. 13 no.10:
1409-1419 0 '61.

1. Lucrare efectuata in clinica de pediatrie "Emilia Irza", Bucuresti.
(ANEMIA, ERYTHROBLASTIC case reports)

RUMANIA

DALABAN, I. Gr., MD. Public Health Service Physician, Anaesthetist and Reviver.

Clinic for Plastic and Repair Surgery (Clinica de Chirurgie Plastica si Reparatoare)

Bucharest, Viața Medicală, No 9, 1 May 63, pp 617-620.

"A Rare Complication Caused by Transfusions in the Subclavicular Vain."

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130004-9

RUSESCU, A., prof.; BALABAN, I., dr.; POPESCU, Val., dr.; TARATESCU, C., dr.

Clinico-radiological aspects of abdominal tumors in children.
Pediatría (Bucur.) 13 no.5:409-420 S-0 '64

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103130004-9"

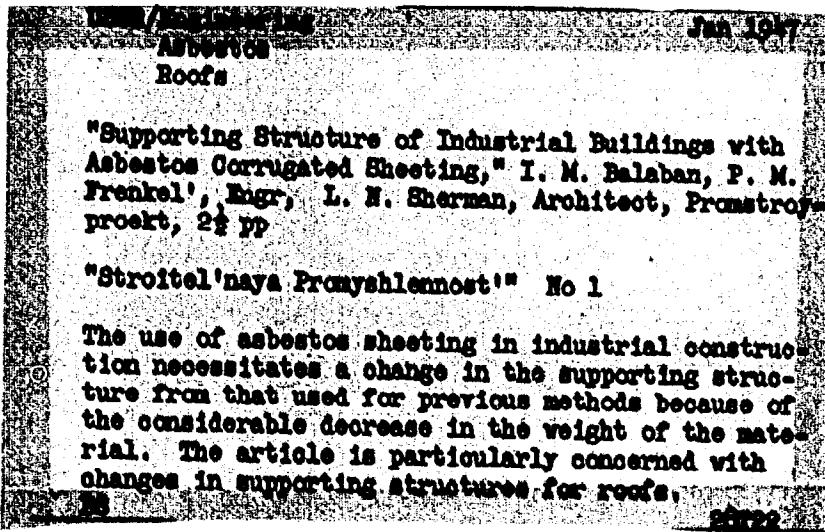
RUSESCU, A., prof.; BALABAN, I. dr.; TARARESCU, C., dr.; POPESCU, V., dr.

Functional disorders of the intestine in children. Pediatría
(Bucur.) 14 no.3:231-239 My-Ja '65.

1. Încrare efectuata in Spitalul clinic de pediatrie "Emilia
Irșa", Bucuresti.

BALABAN, I. M.

PA 28T22



BALABAN, I. N.

- Subject: Respiratory Diseases. Pathobiology
Vol VII, No. 1, Jan-Mar 1972
1. "The Group of Respiratory Viruses," International Society for Virology and Immunobiology, pp 119-123.
 2. "The Pathobiology of Respiratory Viral Diseases," Dr G. M. Loeffelholz and Dr. A. M. Zuckerman, pp 115-116.
 3. "Respiratory Viral Diseases Transmissible from Animals to Man," Dr. S. SARKAR and Dr. C. SHEDD; pp 119-123.
 4. "The Mechanism of Multiplication of Some Respiratory Viruses," Dr. R. PORTCH and Dr. J. SAWER, pp 125-131.
 5. "Some Pathobiological Aspects of Viral Respiratory Diseases in the Child," Prof. Dr. H. H. KLEIN and Prof. Dr. W. P. DÖRRICH and Dr. G. H. WILHELM, pp 133-140.
 6. "Antivirals in the Therapy of Respiratory Viral Diseases," Prof. Dr. H. SALLI; pp 141-146.
 7. "Antivirals in Respiratory Infection," Dr. M. M. BERNSTEIN; pp 147-151.
 8. "Pathobiology of Infection," Dr. I. MATHIAS and J. P. PRESTON; pp 153-157.
 9. "Contributions of the International Conference on 'Viral Respiratory Diseases,' Salta, Argentina, September 1970," Dr. J. B. BURGESS, pp 159-162.

(4)

DALEIN, I. Ya.

42741. ROZOVSKAYA, S. P. i PALAPAN, I. Ya. Lechenie Glatkomy Rentgenoblucheniyem Sheynykh Simpaticheskikh Uzlov. Oftalmol. Zhurnal, 1948, No 3, s. 111-16

SO: Letopis'Zhurnal'nykh Statey, Vol. 7, 1949

DMITRIYVA, I.T.; BALABAN, I.Ya.

Studying the effect of mud therapy on splenic blood storage using contrast lienography. Vop.kur.fizioter. i lech.fiz.kul't. 23 no.1: 68-70 '58. (MIRA 11:3)

1. Iz reumatologicheskoy kliniki (zav. M.S.Belen'kiv) Ukrainskogo instituta kurortologii i rentgenovskogo otdeleniya zav. - dotsent I.Ya.Balaban) Lermontovskogo kurorta (Odessa)
(BATHS, MOOR AND MUD) (SPLEEN--RADIOGRAPHY)
(BLOOD VOLUME)

ANTNA-RADCHENKO, N.D., prof.; LEONIDOVA, K.O., kand.med.nauk; KOVBASYUK, R.F.,
kand.med.nauk; BALABAN, I.Ya., dotsent; BERNATSKAYA, B.P.

Specific antigens and antibodies in the blood serum of patients
with cancer of the lungs. Vrach. delo no.3:53-58 Mr '64.
(MIRA 17:4)

1. Odesskiy nauchno-issledovatel'skiy institut epidemiologii i
mikrobiologii imeni I.I.Mechnikova i Odesskiy oblastnoy onkolo-
gicheskiy dispanser.

CO'EA, Ana; VOLOVICI, C.; MUCENIC, Iulia; NITU, I.; BRATOSIN, Niculina;
BUGBAC, Elena; IACOB, Eugenia; VASILESCU, Marcela; BALABAN, Lidia;
COLIOS, Elena; PETRESCU, Adriana; POPESCU, Florica; SĂFTA, Rodica;
MAC, Hareta.

The Oradea plain and hilly soils. Dari seama sed 480000000
60/61 [publ. '62]

BALABAN, Lubos

Stabilization of polypropylene against the effects of ultraviolet radiation. Chem prum 14 no.7:366-369 Jl '64.

J. Research Institute of Macromolecular Chemistry, Brno.

BALABAN, Lubos

Photodestruction of the isotactic polypropylene and its inhibition.
Chem prum 13 no.1:45-49 Ja '63.

1. Vyskumný ustav makromolekulární chemie, Brno.

J 33325-66 EMP(t)/ETI IJP(e) JD/JG SOURCE CODE: RU/0017/65/000/006/0289/0292
ACC NR: AP602h618

AUTHOR: Cosma, D. (Engineer); Ilieșcu, E. (Engineer); Balaban, L. (Engineer) G1

ORG: Metallurgical Research Institute (Institutul de cercetari metalurgice) B

TITLE: Experimental studies concerning the improvement of the resistance to intercrysalline corrosion of stainless Cr-Mn-Ni-N steels

SOURCE: Metalurgia, no. 6, 1965, 289-292

TOPIC TAGS: stainless steel, corrosion, corrosion resistance, molybdenum alloy, ferrite 17

ABSTRACT: The authors studied the effect of molybdenum alloying on the resistance to intercrysalline corrosion of stainless steels of the Cr-Mn-Ni-N type. Their laboratory-scale experiments showed that such alloying improves the resistance provided the molybdenum content is such as to ensure ferrite precipitation in the steel structure. Orig. art. has: 5 figures and 5 tables. [Based on authors' Eng. summary] [JPRS]

SUB CODE: 11 / SUBM DATE: none / SOV REF: 001 / OTH REF: 004

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UDC: 669.14.018.8:620.196.2

0975

22-602

BALABAN, Lubos

Atmospheric aging of dyed polypropylene. Chem prum 15 no.3:158-160 Mr '65.

1. Research Institute of Macromolecular Chemistry, Brno.

BALABAN, Lubos; KUCEROVSKY, Zdenek

Use of the EPR-2 radiospectrometer for examination of radicals
prepared by oxidation of antioxidants. Chem prum 13
no.2:74-77 F '63.

1. Vyskumnny ustav makromolekularni chemie, Brno.

RYSHAVY, D. [Rysavy, D.]; BALABAN, L.

Effect of polymerization catalysts on the degradation rate of
isotactic polypropylene. Vysokom.socd. 3 no.3:470-474 Mf '61.
(MIRA 14:6)

1. Nauchno-issledovatel'skiy institut makromolekulyarnoy khimii
Brno, Chekhoslovakiya.
(Polymerization) (Catalysts) (Propene)

~~SECRET~~
~~HALABAN, L.S.~~

Reducing work consumption and improving the quality in glove making.
Leg. prom. 16 no.8:52-53 Ag '56. (MIRA 10:12)

1. Glavnnyy inzhener Saratovskoy trikotashno-perchatochnoy fabriki,
(Gloves) (Knit goods industry--Equipment and supplies)

BALABAN, L.S.

Striving to achieve high production standards. Tekst. prom. 24
no.7120-22 Jl '64. (MIRA 17:10)

1. Glavnnyy inzh. Saratovskoy trikotazhno-perchatochnoy fabriki.

IS-8061

25175

S/190/61/003/007/019/021
B101/B230

AUTHORS: Ryšavy, D., Balaban, L., Slavik, V., Ruža, J.

TITLE: Oxidation of isotactic polypropylene

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 7, 1961,
1110 - 1115

TEXT: Polypropylene being processed at very high temperatures, the target of the present paper was to study the oxidation of isotactic polypropylene at 120 - 150°C. For all experiments, polypropylene of a molecular weight of 400,000, ash contents 0.5 % was used. Absorption of oxygen was measured at atmospheric pressure by heating the polypropylene in a reaction vessel filled with O₂. Decrease of volume due to absorption of O₂ was determined visually by means of a graduated, horizontal, U-shaped capillary tube (total length about 1300 mm) filled with mercury, or a platinum wire (diameter 0.1 mm) was fused into the capillary tube and the change of reactance, due to the shift of the mercury within the capillary

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